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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/047,688	01/15/2002	Z. Valy Vardeny	UTU-10002/29	3863
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John G. Posa Gifford, Krass, Groh, Sprinkle, Anderson & Citkowski, PC			EXAMINER	
			YAMNITZKY, MARIE ROSE	
280 N. Old Woodward Ave., Suite 400 Birmingham, MI 48009			ART UNIT	PAPER NUMBER
. 3			1774	
			DATE MAILED: 09/30/2003	9

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Applicating			/ <sub>1</sub> D				
Examiner		Application No.	Applicant(s)				
Marie R, Yamnitzky   1774    ### ASHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _f MONTH(S) FROM THE MAILING DATE OF this COMMUNICATION.  ### ASHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _f MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  ### Camerous of the my by a revisition with the prosotion of 3° CPR 1.138(a). In no event, however, may a reply be timely filled communication for proprise precision of the proprise		10/047,688	VARDENY ET AL.				
The MALING DATE of this communication app ars on th cov r sh et with the correspond nee address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ± MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time myle is available under the provisions of \$7 CRF 1.13(6). In no event, however, may a reply be timely filed  ### The period for may be a provision under the provisions of \$7 CRF 1.13(6). In no event, however, may a reply be timely filed  ### The period for reply appelled above is less then thinty (30) days, an early within the statutory minimum of thinty (30) days will be considered timely.  ### The period for reply is specified above is less than thinty (30) days, an early within the statutory minimum of thinty (30) days will be considered in the period for reply value to the statutory period will period and the communication.  ### The period for reply is specified above is less than thinty (30) days, will be considered in the period for reply value the statutory period will period and the period of the communication.  #### The period for reply is applicated of the communication of becommendated.  #### Responsive to communication(s) filed on 15 January 2002  #### Responsive to communication(s) filed on 15 January 2002  #### Responsive to communication is in condition for allowance except for formal matters, prosecution as to the merits is observed in accordance with the practice under £x partie Quayle, 1935 C.D. 11, 453 O.G. 213.  #### Disposition of Claims  #### All Claim(s) 1.24 Is/are pending in the application.  #### Claim(s) 1.24 Is/are pending in the application.  #### Claim(s) 1.24 Is/are pending in the application.  #### Claim(s) 1.24 Is/are epiceted.  #### Claim(s) 1.24 Is/are objected to by the Examiner.  #### Claim(s) 1.24 Is/are objected to by the Examiner.  #### Claim(s) 1.24 Is/are objected to by the Examiner.  #### Claim(s) 1.24 Is/are objected to by the Examiner.  #### Claim(s) 1.24 Is/are objected to by the Examiner.  #### Claim(s) 1.25 Is/are o	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.35(a). In no event, however, may a reply be timely filed - Extensions of time may be available under the provisions of 37 CFR 1.35(a). In no event, however, may a reply be timely filed - Extensions of time may be available under the provisions of 37 CFR 1.35(a). In no event, however, may a reply be timely filed - Extensions of time may be available under the provisions of 37 CFR 1.35(a).  - If NO period for reply is period under the intermediate provision of the neutron with the provision of the provision of the provision of the neutron device.  - If NO period for reply is specified above, the maximum statutory prefix of will expire 30 (x) (b) MONTH'S from the mailing date of this communication, even if timely filed, may reduce a try - secured plants term adjustment. See 37 CFR 1.70(b).  - Status  - This action is FINAL 2D) This action is non-final.  - Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  - Disposition of Claims  - A) Of the above claim(s) is/are allowed.  - (Claim(s) is/are allowed (Claim(s) is/are allowed (Claim(s) is/are rejected (Claim(s) is/are subject to restriction and/or election requirement.  - Application Papers  - Priority under as the second of the provision of the deviating (s) be held in abeyance. See 37 CFR 1.85(a).  - The proposed drawing correction filed on is/are: a) accepted or b) objected to by the Examiner.  - Application Papers  - Application Papers  - Application Papers  - Application provision of requirements have been received by the Examiner.  - Application Papers  - Application							
THE MAILING DATE OF THIS COMMUNICATION.  Ederinosis of time may be variable under the provision of 37 cPR 1.15(6). In no event, however, may a reply be timely filed other SX (5) MONTHS from the mailing date of this communication.  I selections of time may be variable under the provision of 37 cPR 1.15(6). In no event, however, may a reply be timely filed other SX (5) MONTHS from the mailing date of this communication. The provision of the priority under 35 U.S.C. § 119(a)-(d) or (f).  a) The proposed drawing correction filed on							
2a)  This action is FINAL. 2b)  This action is non-final.  3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s)   1-24 is/are pending in the application.  4a) Of the above claim(s)   is/are withdrawn from consideration.  5)  Claim(s)   is/are allowed.  6)  Claim(s)   is/are rejected.  7)  Claim(s)   is/are objected to.  8)  Claim(s)   1-24 are subject to restriction and/or election requirement.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on   is: a)  approved b)  disapproved by the Examiner.  fapproved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1.  Certified copies of the priority documents have been received in Application No.	THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute,  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	e6(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
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4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) □ Claim(s) is/are rejected.  7) □ Claim(s) is/are objected to.  8) ☒ Claim(s) 1-24 are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) □ The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12) □ The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  Attachment(s)  Notice of References Cited (PTO-892)    Notice of Informal Patent Application (PTO-153)							
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Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-11 and 13-20, drawn to a method of increasing the efficiency of a luminescent material, classified in class 438, subclass 800.

- II. Claims 12, 21, 23 and 24, drawn to a light emitting device, classified in class 428, subclass 690.
- III. Claim 22, drawn to a material, classified in class 252, subclass 301.16.

The inventions are distinct, each from the other because of the following reasons:

Inventions of Group I and Group III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the process as claimed can be used to make a materially different product consisting of a luminescent material with no impurity (as in the case where the process entails application of an external magnetic field), or a product in which the luminescent material is not an electro-luminescent compound.

Inventions of Group II and Group III are related as combination and subcombination.

Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination

as claimed because the combination does not require an impurity. The subcombination has separate utility such as a component of a fluorescent paint.

Inventions of Group I and Group II are somewhat related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the inventions are said to be somewhat related because the process as claimed does not directly make the product as claimed. The process as claimed can be used to make a materially different product such as a fluorescent paint.

Because these inventions are distinct for the reasons given above and the searches required for each Group are not coextensive, restriction for examination purposes as indicated is proper.

In addition to the preceding restriction requirement, an election of species is also required if applicants elect Group I or Group II.

With respect to the invention of Group I, this application contains claims directed to the following patentably distinct species of the claimed method:

(a) a method in which luminescent material is processed to increase the spin flip rate of carriers wherein

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the material is (i) a polymer, (ii) an oligomer, (iii) a molecular crystal or (iv) a fullerene and

the processing includes (v) adding an impurity, (vi) applying a magnetic field or (vii) increasing effective spin temperature; or

(b) a method in which an impurity is added to a light-emitting material to increase spinlattice relaxation rate of carriers wherein

the material is (i) a polymer, (ii) an oligomer, (iii) a molecular crystal or (iv) a fullerene.

With respect to the invention of Group II, this application contains claims directed to the following patentably distinct species of the claimed device:

(c) a device utilizing a material having an increased spin flip rate wherein the device is (viii) an electro-luminescent device or (ix) a laser; or(d) a device utilizing a material having an increased spin-lattice relaxation rate.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. This is, if applicants elect Group I in response to the restriction requirement, applicants are required to elect one of (a) or (b), elect one of (i)-(iv) and, if (a) is elected, further elect one of (v)-(vii). If applicants elect Group II in response to the restriction

requirement, applicants are required to elect one of (c) or (d) and, if (c) is elected, further elect one of (viii) or (ix). Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

No telephone call was made to request an oral election to the above restriction and election of species requirements due to the complexity of the requirements.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication should be directed to Marie R. Yamnitzky at telephone number (703) 308-4413. The examiner works a flexible schedule but can generally be reached at this number from 6:30 a.m. to 4:00 p.m. Monday, Tuesday, Thursday and Friday, and every other Wednesday from 6:30 a.m. to 3:00 p.m.

The current fax numbers for Art Unit 1774 are (703) 872-9306 for all official faxes. (Unofficial faxes to be sent directly to examiner Yamnitzky can be sent to (703) 872-9041.)

MRY

September 29, 2003

MARIE YAMNITZKY PRIMARY EXAMINER

Marie K. Garately

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